



Graver Technologies

Filtration | Separation | Purification

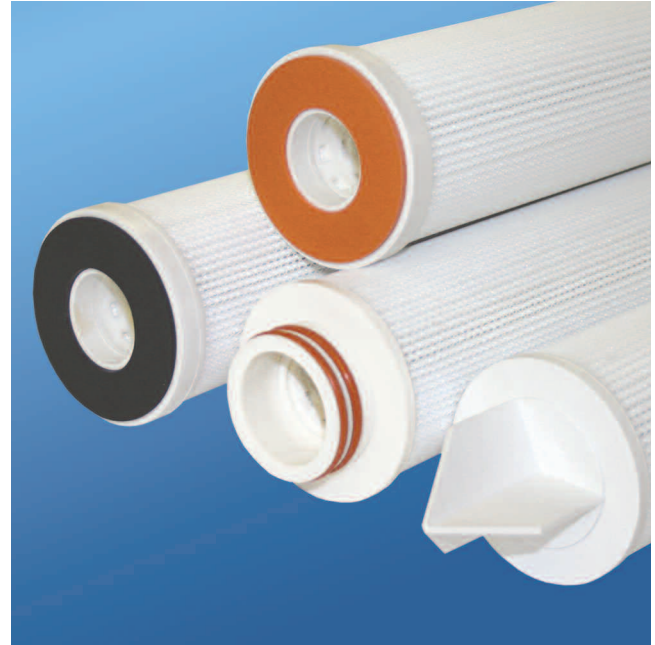
## GFP™ Microfiberglass Filter Series

### High Temperature Glass Fiber Cartridges (GFP)

This high efficiency, disposable filter element is suited for a wide range of applications. The filter is constructed of pleated Borosilicate Microfiberglass filter media with greater surface area for high system flow rate.

#### Filter Features–Benefits

- Polyester hardware extends application range beyond the limits of polypropylene.
- Higher temperature capability of 230°F (110°C)
- Micron ratings from 0.2 to 30 µm– Broad application range
- Uniform pore size– High removal efficiency
- High surface area– High flow capability and dirt holding capacity
- Long service life– Minimizes maintenance costs
- Fixed pore construction– Eliminates dirt unloading at maximum differential pressure



#### Filter Specifications

Media:	Borosilicate Microfiberglass with Acrylic Binder
Inner core:	Polyester
Support layers:	Polyester
End caps:	Polyester
Cage:	Polyester
Gasket/O-Rings :	Buna-N, EPDM, Silicone, Teflon Encapsulated Viton O-Rings
Micron ratings:	0.2, 0.45, 1.0, 3.0, 10, 30 µm

#### Dimensions and Operating Parameters

Nominal lengths:	9.75", 10", 20", 30", 40" (24.7, 25.4, 50.8, 76.2, 101.6 cm)
Outside diameter:	2.7" (6.9 cm)
Inside diameter:	1.0" (2.54 cm)
Maximum operating temperature:	230 °F (110°C)
Maximum differential pressure:	75 psid @ 70°F (5.2 bar @ 21°C) 60 psid @ 200°F (4.1 bar @ 93°C) 50 psid @ 230°F (3.4 bar @ 110°C)
Recommended change-out pressure for disposal:	35 psid (2.4 bar)

#### Filter Removal Efficiency

Beta Ratio Efficiency	Beta 10 90%	Beta 20 95%	Beta 100 99%	Beta 1000 99.9%	Beta 5000 99.98%
0.2 micron	0.2	0.3	0.6	0.8	1.0
0.45 micron	0.45	0.6	0.8	1.8	2.0
1.0 micron	1.0	1.3	2.0	3.5	4.0
3.0 microns	3.0	4.0	5.5	9.0	10.0
10.0 microns	10.0	12.0	15.0	17.0	18.0
30.0 microns	30.0	35.0	38.0	42.0	45.0

$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water at 2.5 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

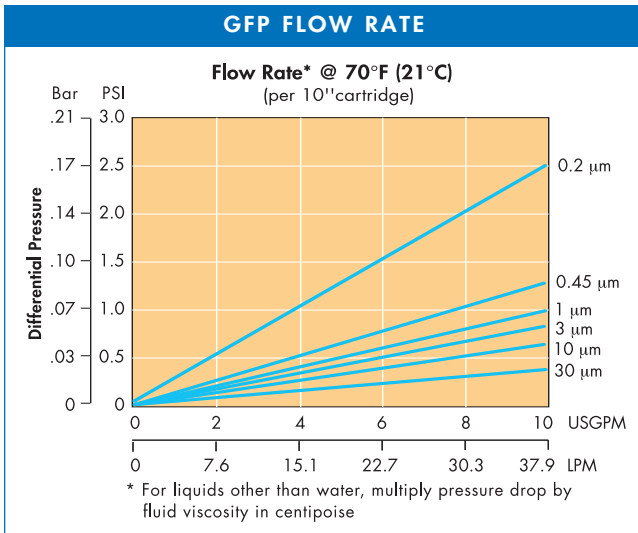
#### Applications

- Petrochemicals
- Solvents
- Boiler Water
- Lube Oil
- Chemicals
- Inks
- Oil & Gas

## GFP Nomenclature Information

<b>GFP</b>  <b>Filter Type</b> GFP Series Filters	<b>3</b>  <b>Retention Rating (microns)</b> 0.2 0.45 1 3 10 30	<b>-10</b>  <b>Nominal Length (inches)</b> -9.75 -10 -20 -30 -40	<b>P3</b>	<b>B</b>  <b>Gasket or O-Ring</b> S Silicone B Buna-N E EPDM V Viton T Teflon encap. Viton (O-rings only)
				<b>End Configuration</b> <b>P</b> Double Open End <b>P2</b> 226/Flat Single Open End <b>P3</b> 222/Flat Single Open End <b>P7</b> 226/Fin Single Open End <b>P8</b> 222/Fin Single Open End

Example: GFP 3-10 P3B



### For more information

Graver Technologies Customer Service: **1-888-353-0303**

Technical Support: **1-800-510-0932**

E-mail us at [info@gravertech.com](mailto:info@gravertech.com)

Graver Technologies Europe (UK): **+44-1424-777791**

All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Graver Technologies as to the effects of such use or the results to be obtained. Graver Technologies assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

GFP is a trademark of Graver Technologies, LLC.

DISTRIBUTED BY:



**Pureworld Solutions Inc.**

Vancouver Office:  
4916 River Reach,  
Delta, BC, V4K 4A4

T: 604-878-8092  
[info@pureworld.ca](mailto:info@pureworld.ca)  
[www.pureworld.ca](http://www.pureworld.ca)



Graver Technologies

200 Lake Drive  
Glasgow,  
DE 19702 U.S.A.

302- 731-1700  
800- 249-1990  
Fax 302- 369-0938

e-mail: [info@gravertech.com](mailto:info@gravertech.com)  
web site: [www.gravertech.com](http://www.gravertech.com)

